August 13, 2021

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Rosemont Copper Company
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TEL (520) 400-0085
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Work Order No.: 21G0695
Order Name: Baseline Stormwater Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 12 sample(s) on 07/27/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

Order: Baseline Stormwater Monitoring

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21G0695-01	TTB1-072321	Storm Water	07/23/2021 2315
21G0695-02	TTB2-072221	Storm Water	07/22/2021 2344
21G0695-03	D4B-1B	Storm Water	07/22/2021 2344
21G0695-04	D4B-1A	Storm Water	07/22/2021 2344
21G0695-05	TTA2-2	Storm Water	07/23/2021 2315
21G0695-06	TTA-3	Storm Water	07/23/2021 2315
21G0695-07	D4A-1	Storm Water	07/23/2021 2315
21G0695-08	D3A-1	Storm Water	07/22/2021 2344
21G0695-09	D50-1	Storm Water	07/23/2021 2315
21G0695-10	BC2-072721	Storm Water	07/27/2021 0949
21G0695-11	BCD-072721	Storm Water	07/27/2021 0950
21G0695-12	DC3-072721	Storm Water	07/22/2021 2241

RCC-CW016921

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

Case Narrative

Alkalinity analysis was not reported for sample TTB1-072321 due to matrix interference. The pH was less than 4.5.

The Ion Balance Calculation could not be calculated for TTB1-072321 due to not having a result for Alkalinity.

The TKN analysis was performed by TestAmerica Laboratories, Inc. in Phoenix, AZ.

The Total Nitrogen reflected in the report is not the true Total Nitrogen value for the sample due to the TKN being subcontracted to an outside laboratory. The Total Nitrogen results are as follows:

21G0695-01 = 1.4ppm
21G0695-02 = 0.74ppm
21G0695-03 = 3.1ppm
21G0695-04 = 2.3 ppm
21G0695-05 = 0.58ppm
21G0695-06 = 5.5ppm
21G0695-07 = 7.7ppm
21G0695-08 = 1.4ppm
21G0695-09 = 3.0ppm
21G0695-10 = 15ppm
21G0695-11 = 14ppm
21G0695-12 = 14ppm

RCC-CW016922

B1 Target analyte detected in the method blank at or above the method reporting limit.

B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.

E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

H1 Sample analysis was performed past holding time.

H2 Initial analysis was performed within holding time. Reanalysis for the required dilution was past holding time.

H3 Sample was received and/or analysis requested past holding time.

H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.

M4 The analysis of the spiked sample required a dilution such that the calculation does not provide useful information. The associated LCS/LCSD recovery was acceptable.

M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.

Q9 Insufficient sample received to meet method QC requirements.

R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-01

Client Sample ID: TTB1-072321
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	300	22		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	450			mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.78			mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.78	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.0035	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Calcium	110	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Magnesium	7.4	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Silica	3.7	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1651	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	4.0	D5	mg/L	100	07/29/2021 1805	08/02/2021 1640	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Barium	0.014	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Beryllium	ND	0.025	D5	mg/L	100	07/29/2021 1805	08/02/2021 1640	CR
Cadmium	0.0053	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Cobalt	0.011	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Copper	4.6	0.050		mg/L	100	07/29/2021 1805	08/02/2021 1640	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Manganese	1.5	0.025		mg/L	100	07/29/2021 1805	08/02/2021 1640	CR
Molybdenum	ND	0.025	D5	mg/L	100	07/29/2021 1805	08/02/2021 1640	CR
Nickel	0.0045	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Selenium	0.0030	0.0025		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Silver	0.000036	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
Zinc	0.66	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1536	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-01

Client Sample ID: TTB1-072321
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1341	MH
pH-E150.1								
pH (pH Units)	4.4		H5	-	1	07/30/2021 1615	07/30/2021 1635	CWB
Temperature (°C)	20		H5	-	1	07/30/2021 1615	07/30/2021 1635	CWB
Turbidity-E180.1								
Turbidity	3.6	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.018	0.10	E4	mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Calcium	150	4.0		mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Iron	9.2	0.30		mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Magnesium	21	3.0		mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Potassium	ND	5.0		mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Silica	13	0.20		mg/L	1	08/06/2021 1035	08/09/2021 1425	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 0947	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	9.6	4.0	M3	mg/L	100	08/03/2021 1045	08/04/2021 1346	CR
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Arsenic	0.0020	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Barium	0.021	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Beryllium	0.0033	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Cadmium	0.014	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Chromium	0.0016	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Cobalt	0.0412	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Copper	22	0.050	M3	mg/L	100	08/03/2021 1045	08/04/2021 1346	CR
Lead	0.012	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Manganese	4.1	0.025	M3	mg/L	100	08/03/2021 1045	08/04/2021 1346	CR
Molybdenum	0.0047	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Nickel	0.017	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Selenium	0.018	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Silver	0.0010	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Thallium	0.00054	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Uranium	0.0058	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1133	CR
Zinc	ND	4.0	D5	mg/L	100	08/03/2021 1045	08/04/2021 1346	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1330	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-01

Client Sample ID: TTB1-072321
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Fluoride	4.4	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Nitrogen, Nitrate (As N)	0.78	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0018	JG
Sulfate	680	100		mg/L	20	07/27/2021 1024	08/03/2021 0205	JG
Specific Conductance-SM2510 B								
Conductivity	950	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	760	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	170	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								
Silica	6.4	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-02

Client Sample ID: TTB2-072221
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	95	22		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	710			mg/L	1	08/06/2021 1035	08/10/2021 1037	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.0			mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.026	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Calcium	38	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Silica	11	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1654	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/02/2021 1643	CR
Antimony	0.00065	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Arsenic	0.00062	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Barium	0.0089	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1643	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Copper	0.067	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Manganese	0.062	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Molybdenum	0.012	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1643	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Selenium	0.00055	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Silver	0.000085	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1540	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-02

Client Sample ID: TTB2-072221
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1343	MH
pH-E150.1								
pH (pH Units)	6.7		H5	-	1	08/02/2021 1350	08/02/2021 1355	CWB
Temperature (°C)	18		H5	-	1	08/02/2021 1350	08/02/2021 1355	CWB
Turbidity-E180.1								
Turbidity	2.0	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.56	0.10		mg/L	1	08/06/2021 1035	08/10/2021 1038	MH
Calcium	220	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1037	MH
Iron	250	6.0		mg/L	20	08/06/2021 1035	08/10/2021 1135	MH
Magnesium	38	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1037	MH
Potassium	23	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1037	MH
Silica	100	4.0		mg/L	20	08/06/2021 1035	08/10/2021 1135	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1550	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	40	2.0		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Antimony	ND	0.025	D5	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Arsenic	ND	0.025	D5	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Barium	0.19	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Beryllium	ND	0.013	D5	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Cadmium	ND	0.013	D5	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Chromium	0.033	0.025	B7	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Cobalt	0.0284	0.0125		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Copper	26	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Lead	0.29	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Manganese	5.0	0.013		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Molybdenum	0.052	0.013		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Nickel	0.025	0.025	B7	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Selenium	0.015	0.13	E4	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Silver	0.035	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Thallium	0.0016	0.025	E4	mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
Uranium	0.0060	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1256	CR
Zinc	2.9	2.0		mg/L	50	08/03/2021 1045	08/04/2021 1504	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0020	E8	mg/L	1	08/04/2021 0819	08/04/2021 1333	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-02

Client Sample ID: TTB2-072221
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.2	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Fluoride	0.71	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Nitrogen, Nitrate (As N)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Phosphorus, Dissolved Orthophosphate (As P)	0.52	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Sulfate	46	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0036	JG
Calculation-Ion Balance								
Anion	3.00			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	1.90			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	22.4			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	84	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	84	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	240	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	160	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	530	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

Client:	Rosemont Copper Company	**Client Sample ID:**	TTB2-072221
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/22/2021 2344
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-02	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	11	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-03

Client Sample ID: D4B-1B
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	71	22		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	78			mg/L	1	08/06/2021 1035	08/10/2021 1041	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.59			mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.59	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.022	0.10		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Calcium	29	4.0		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Iron	ND	0.30		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Silica	6.5	0.20		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	07/30/2021 1657	CR
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/02/2021 1646	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Arsenic	0.00071	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Barium	0.011	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1646	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Copper	0.083	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Manganese	0.023	0.00025		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Molybdenum	0.0049	0.00025		mg/L	1	07/29/2021 1805	08/02/2021 1646	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Selenium	0.00037	0.0025	E4	mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Silver	0.00013	0.00050	E4	mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	07/30/2021 1543	CR
CVAA Dissolved Mercury-E 245.1								

RCC-CW016931

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-03

Client Sample ID: D4B-1B
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1351	MH
pH-E150.1								
pH (pH Units)	6.7		H5	-	1	08/02/2021 1350	08/02/2021 1356	CWB
Temperature (°C)	18		H5	-	1	08/02/2021 1350	08/02/2021 1356	CWB
Turbidity-E180.1								
Turbidity	0.65	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.060	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1042	MH
Calcium	31	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1041	MH
Iron	3.8	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1041	MH
Magnesium	ND	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1041	MH
Potassium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1041	MH
Silica	15	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1042	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1554	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	1.4	0.20		mg/L	5	08/03/2021 1045	08/04/2021 1508	CR
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Arsenic	0.0015	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Barium	0.023	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Beryllium	ND	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Cadmium	0.00028	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Chromium	0.0018	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Cobalt	0.000855	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Copper	0.67	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Lead	0.0056	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Manganese	0.22	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Molybdenum	0.0058	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Nickel	0.0029	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Selenium	0.0012	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Silver	0.0014	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Thallium	0.000048	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Uranium	0.00018	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
Zinc	0.082	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1300	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1336	CR

RCC-CW016932

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-03

Client Sample ID: D4B-1B
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Nitrogen, Nitrate (As N)	0.59	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Sulfate	ND	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0054	JG
Calculation-Ion Balance								
Anion	1.89			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	1.45			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	13.1			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	82	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Total (As CaCO3)	82	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Specific Conductance-SM2510 B								
Conductivity	140	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	99	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	72	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016933

Client:	Rosemont Copper Company	**Client Sample ID:**	D4B-1B
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/22/2021 2344
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-03	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	7.8	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-04

Client Sample ID: D4B-1A
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	80	22		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	220			mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.0			mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.037	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Calcium	32	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Silica	15	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1308	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Antimony	0.0039	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Arsenic	0.0036	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Barium	0.019	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Copper	0.12	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Manganese	0.12	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1538	CR
Molybdenum	0.024	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Nickel	0.00081	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1538	CR
Selenium	ND	0.0025		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Silver	0.00012	0.00050	E4	mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Thallium	0.000024	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1114	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-04

Client Sample ID: D4B-1A
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1353	MH
pH-E150.1								
pH (pH Units)	6.8		H5	-	1	08/02/2021 1350	08/02/2021 1356	CWB
Temperature (°C)	19		H5	-	1	08/02/2021 1350	08/02/2021 1356	CWB
Turbidity-E180.1								
Turbidity	31	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.10	0.10		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Calcium	64	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Iron	17	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Magnesium	14	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Potassium	7.3	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Silica	73	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1045	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1558	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	11	4.0		mg/L	100	08/03/2021 1045	08/04/2021 1511	CR
Antimony	0.0028	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Arsenic	0.0082	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Barium	0.073	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Beryllium	0.0014	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Cadmium	0.0011	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Chromium	0.0091	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Cobalt	0.00612	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Copper	4.0	0.050		mg/L	100	08/03/2021 1045	08/04/2021 1511	CR
Lead	0.022	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Manganese	1.4	0.025		mg/L	100	08/03/2021 1045	08/04/2021 1511	CR
Molybdenum	0.025	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Nickel	0.0090	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Selenium	0.015	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Silver	0.0050	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Thallium	0.00017	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Uranium	0.0016	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
Zinc	0.31	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1303	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/04/2021 0819	08/04/2021 1338	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-04

Client Sample ID: D4B-1A
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	1.3	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Nitrogen, Nitrate (As N)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Sulfate	ND	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0112	JG
Calculation-Ion Balance								
Anion	7.03			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	1.61			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	62.8			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	330	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	330	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	240	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	42	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	5900	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016937

Client:	Rosemont Copper Company	**Client Sample ID:**	D4B-1A
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/22/2021 2344
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-04	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	15	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-05

Client Sample ID: TTA2-2
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	30	22		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	47			mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.0			mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.012	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Calcium	12	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Silica	5.8	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1311	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	0.16	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Barium	0.0073	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Copper	0.11	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Manganese	0.016	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1545	CR
Molybdenum	0.012	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1545	CR
Selenium	0.0012	0.0025		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Silver	0.00016	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Thallium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1120	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-05

Client Sample ID: TTA2-2
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1356	MH
pH-E150.1								
pH (pH Units)	6.8		H5	-	1	08/02/2021 1350	08/02/2021 1357	CWB
Temperature (°C)	18		H5	-	1	08/02/2021 1350	08/02/2021 1357	CWB
Turbidity-E180.1								
Turbidity	3.5	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.052	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Calcium	19	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Iron	5.6	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Magnesium	ND	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Potassium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Silica	15	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1049	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1602	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	1.9	0.40		mg/L	10	08/03/2021 1045	08/04/2021 1522	CR
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Arsenic	0.0011	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Barium	0.034	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Beryllium	ND	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Cadmium	0.00029	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Chromium	0.0088	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Cobalt	0.00183	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Copper	0.72	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Lead	0.0074	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Manganese	0.13	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Molybdenum	0.013	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Nickel	0.0069	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Selenium	0.0046	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Silver	0.0014	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Thallium	0.00012	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Uranium	0.00042	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
Zinc	0.056	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1314	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/09/2021 0714	08/09/2021 1216	MH

RCC-CW016940

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-05

Client Sample ID: TTA2-2
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Nitrogen, Nitrate (As N)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3, M1	mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Sulfate	7.7	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0130	JG
Calculation-Ion Balance								
Anion	1.01			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	0.621			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	24.1			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	36	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	36	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	84	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	60	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	720	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016941

Client:	Rosemont Copper Company	**Client Sample ID:**	TTA2-2
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/23/2021 2315
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-05	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	5.1	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-06

Client Sample ID: TTA-3
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	84	22		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	470			mg/L	1	08/06/2021 1035	08/10/2021 1052	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.56			mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.56	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.011	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Calcium	34	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Silica	6.0	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1314	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Barium	0.011	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Copper	0.083	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Manganese	0.035	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1548	CR
Molybdenum	0.027	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1548	CR
Selenium	0.00060	0.0025		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Silver	0.000046	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Thallium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1124	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-06

Client Sample ID: TTA-3
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1358	MH
pH-E150.1								
pH (pH Units)	7.0		H5	-	1	08/02/2021 1350	08/02/2021 1357	CWB
Temperature (°C)	18		H5	-	1	08/02/2021 1350	08/02/2021 1357	CWB
Turbidity-E180.1								
Turbidity	1.9	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.39	0.10		mg/L	1	08/06/2021 1035	08/10/2021 1053	MH
Calcium	120	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1052	MH
Iron	160	6.0		mg/L	20	08/06/2021 1035	08/10/2021 1146	MH
Magnesium	42	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1052	MH
Potassium	16	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1052	MH
Silica	110	4.0		mg/L	20	08/06/2021 1035	08/10/2021 1147	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1606	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	47	4.0		mg/L	100	08/03/2021 1045	08/04/2021 1515	CR
Antimony	ND	0.0010	D5	mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Arsenic	0.011	0.0010		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Barium	0.24	0.0010		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Beryllium	0.0070	0.00050		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Cadmium	0.0051	0.00050		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Chromium	0.032	0.0010	B7	mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Cobalt	0.0285	0.000500		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Copper	25	0.050		mg/L	100	08/03/2021 1045	08/04/2021 1515	CR
Lead	0.16	0.0010		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Manganese	3.2	0.025		mg/L	100	08/03/2021 1045	08/04/2021 1515	CR
Molybdenum	0.10	0.00050		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Nickel	0.034	0.0010	B7	mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Selenium	0.059	0.0050		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Silver	0.015	0.0010		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Thallium	0.00072	0.0010	E4	mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
Uranium	0.0081	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1317	CR
Zinc	1.2	0.080		mg/L	2	08/03/2021 1045	08/04/2021 1525	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0020	E8	mg/L	1	08/09/2021 0714	08/09/2021 1219	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-06

Client Sample ID: TTA-3
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Nitrogen, Nitrate (As N)	0.56	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0148	JG
Sulfate	62	25		mg/L	5	07/27/2021 1024	08/03/2021 0336	JG
Calculation-Ion Balance								
Anion	2.43			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	1.70			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	17.7			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	46	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	46	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	210	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	160	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	210	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016945

Client:	Rosemont Copper Company	**Client Sample ID:**	TTA-3
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/23/2021 2315
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-06	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	6.9	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-07

Client Sample ID: D4A-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	39	22		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	140			mg/L	1	08/06/2021 1035	08/10/2021 1115	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.0			mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.020	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Calcium	16	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Silica	3.9	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1258	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Arsenic	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Barium	0.0073	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Copper	0.065	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Manganese	0.015	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1558	CR
Molybdenum	0.0052	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1558	CR
Selenium	0.00039	0.0025	E4	mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Silver	0.000091	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1138	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-07

Client Sample ID: D4A-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1401	MH
pH-E150.1								
pH (pH Units)	7.5		H5	-	1	08/02/2021 1350	08/02/2021 1359	CWB
Temperature (°C)	19		H5	-	1	08/02/2021 1350	08/02/2021 1359	CWB
Turbidity-E180.1								
Turbidity	1.9	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.076	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1116	MH
Calcium	49	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1115	MH
Iron	7.0	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1115	MH
Magnesium	5.3	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1115	MH
Potassium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1115	MH
Silica	31	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1116	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1610	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	5.4	2.0		mg/L	50	08/03/2021 1045	08/04/2021 1518	CR
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Arsenic	0.0026	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Barium	0.057	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Beryllium	0.00055	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Cadmium	0.00057	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Chromium	0.0057	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Cobalt	0.00294	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Copper	1.4	0.025		mg/L	50	08/03/2021 1045	08/04/2021 1518	CR
Lead	0.016	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Manganese	0.49	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Molybdenum	0.010	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Nickel	0.0062	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Selenium	0.0063	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Silver	0.0023	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Thallium	0.00011	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Uranium	0.0013	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
Zinc	0.11	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1320	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/09/2021 0714	08/09/2021 1221	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-07

Client Sample ID: D4A-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Nitrogen, Nitrate (As N)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Sulfate	ND	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0206	JG
Calculation-Ion Balance								
Anion	1.92			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	0.801			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	41.1			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	90	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	90	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	100	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	84	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	340	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016949

Client:	Rosemont Copper Company	**Client Sample ID:**	D4A-1
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/23/2021 2315
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-07	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	4.5	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-08

Client Sample ID: D3A-1
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	120	22		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	910			mg/L	1	08/06/2021 1035	08/10/2021 1119	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	1.4			mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	1.4	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.022	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Calcium	40	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Magnesium	4.7	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Silica	4.3	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1317	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Antimony	0.00065	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Arsenic	0.0018	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Barium	0.025	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Cobalt	0.00026	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Copper	0.0036	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Manganese	0.036	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1602	CR
Molybdenum	0.012	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Nickel	0.00081	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1602	CR
Selenium	0.00095	0.0025	E4	mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Thallium	0.000031	0.00050	E4	mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1141	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-08

Client Sample ID: D3A-1
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1403	MH
pH-E150.1								
pH (pH Units)	7.0		H5	-	1	08/02/2021 1350	08/02/2021 1400	CWB
Temperature (°C)	19		H5	-	1	08/02/2021 1350	08/02/2021 1400	CWB
Turbidity-E180.1								
Turbidity	8.0	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.067	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1120	MH
Calcium	340	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1119	MH
Iron	4.8	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1119	MH
Magnesium	17	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1119	MH
Potassium	5.3	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1119	MH
Silica	34	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1120	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1634	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	6.1	2.0		mg/L	50	08/03/2021 1045	08/04/2021 1533	CR
Antimony	0.00070	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Arsenic	0.0059	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Barium	0.065	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Beryllium	0.00039	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Cadmium	0.00053	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Chromium	0.012	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Cobalt	0.00322	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Copper	0.025	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Lead	0.029	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Manganese	0.35	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Molybdenum	0.011	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Nickel	0.016	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Selenium	0.0039	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Silver	0.000087	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Thallium	0.00015	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Uranium	0.00097	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
Zinc	0.097	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1324	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/09/2021 0714	08/09/2021 1224	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-08

Client Sample ID: D3A-1
Collection Date/Time: 07/22/2021 2344
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	2.4	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Nitrogen, Nitrate (As N)	1.4	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0337	JG
Sulfate	66	25		mg/L	5	07/27/2021 1024	08/03/2021 0354	JG
Calculation-Ion Balance								
Anion	16.7			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	2.38			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	75.0			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	750	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Alkalinity, Total (As CaCO3)	750	2.0		mg/L	1	08/03/2021 1610	08/03/2021 1710	EJ
Specific Conductance-SM2510 B								
Conductivity	270	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	170	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	1400	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016953

Client:	Rosemont Copper Company	**Client Sample ID:**	D3A-1
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/22/2021 2344
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-08	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	4.3	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-09

Client Sample ID: D50-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	ND	22		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	57			mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	0.94			mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	0.94	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.0070	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Calcium	5.8	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Silica	2.3	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1320	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	0.081	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Arsenic	0.00063	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Barium	0.011	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Copper	0.045	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Manganese	0.029	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1605	CR
Molybdenum	0.00066	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Nickel	0.00085	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1605	CR
Selenium	ND	0.0025	E8	mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1145	CR
CVAA Dissolved Mercury-E 245.1								

RCC-CW016955

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-09

Client Sample ID: D50-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1406	MH
pH-E150.1								
pH (pH Units)	6.9		H5	-	1	08/02/2021 1350	08/02/2021 1401	CWB
Temperature (°C)	19		H5	-	1	08/02/2021 1350	08/02/2021 1401	CWB
Turbidity-E180.1								
Turbidity	1.8	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.067	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1124	MH
Calcium	17	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Iron	7.2	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Magnesium	3.5	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Potassium	5.7	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Silica	31	0.20		mg/L	1	08/06/2021 1035	08/10/2021 1123	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1638	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	5.1	0.40		mg/L	10	08/03/2021 1045	08/04/2021 1454	CR
Antimony	ND	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Arsenic	0.0027	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Barium	0.056	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Beryllium	0.00054	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Cadmium	ND	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Chromium	0.019	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Cobalt	0.00235	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Copper	0.048	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Lead	0.0055	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Manganese	0.12	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Molybdenum	0.0019	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Nickel	0.014	0.00050	B7	mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Selenium	0.0066	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Silver	0.000071	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Thallium	0.00024	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Uranium	0.00022	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
Zinc	ND	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1327	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/09/2021 0714	08/09/2021 1226	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-09

Client Sample ID: D50-1
Collection Date/Time: 07/23/2021 2315
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	ND	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Nitrogen, Nitrate (As N)	0.83	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Nitrogen, Nitrite (As N)	0.12	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Sulfate	ND	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0355	JG
Calculation-Ion Balance								
Anion	1.21			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation	0.301			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Cation/Anion, % Difference	60.2			meq/L	1	08/10/2021 1537	08/10/2021 1538	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	50	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	50	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	89	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	130	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	230	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016957

Client:	Rosemont Copper Company	**Client Sample ID:**	D50-1
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/23/2021 2315
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-09	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	5.7	2.0		mg/L	1	07/29/2021 1000	07/29/2021 1325	EJ

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-10

Client Sample ID: BC2-072721
Collection Date/Time: 07/27/2021 0949
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	160	22		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	180			mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	13			mg/L	5	07/27/2021 1024	08/03/2021 0412	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	13	0.10		mg/L	5	07/27/2021 1024	08/03/2021 0412	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.035	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Calcium	55	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Magnesium	6.5	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Silica	23	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
Sodium	14	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1323	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	0.10	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Antimony	0.00083	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Arsenic	0.0024	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Barium	0.070	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Copper	0.016	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Lead	0.0031	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Manganese	0.019	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1609	CR
Molybdenum	0.0020	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1609	CR
Selenium	0.0011	0.0025	E4	mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1148	CR
CVAA Dissolved Mercury-E 245.1								

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-10

Client Sample ID: BC2-072721
Collection Date/Time: 07/27/2021 0949
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1312	MH
pH-E150.1								
pH (pH Units)	7.7		H5	-	1	08/02/2021 1350	08/02/2021 1411	CWB
Temperature (°C)	22		H5	-	1	08/02/2021 1350	08/02/2021 1411	CWB
Turbidity-E180.1								
Turbidity	14	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.036	0.10	E4	mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Calcium	60	4.0		mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Iron	0.49	0.30		mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Magnesium	6.9	3.0		mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Potassium	ND	5.0		mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Silica	25	0.20		mg/L	1	08/06/2021 1035	08/09/2021 1419	MH
Sodium	14	5.0		mg/L	1	08/06/2021 1035	08/10/2021 0950	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	0.40	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Antimony	0.00083	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Arsenic	0.0027	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Barium	0.087	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Beryllium	ND	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Cadmium	ND	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Chromium	ND	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Cobalt	0.000329	0.000250		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Copper	0.0076	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Lead	0.0023	0.00050		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Manganese	0.058	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Molybdenum	0.0021	0.00025		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Nickel	0.0020	0.00050	B5	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Selenium	0.0017	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Silver	ND	0.00050	E8	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Thallium	0.00035	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Uranium	0.00045	0.00050	E4	mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
Zinc	ND	0.040		mg/L	1	08/03/2021 1045	08/04/2021 1140	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0010	E8	mg/L	1	08/09/2021 0714	08/09/2021 1229	MH

RCC-CW016960

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-10

Client Sample ID: BC2-072721
Collection Date/Time: 07/27/2021 0949
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	9.8	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0413	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0413	JG
Nitrogen, Nitrate (As N)	13	2.5	H2	mg/L	5	07/27/2021 1024	08/03/2021 0412	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0413	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0413	JG
Sulfate	20	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0413	JG
Calculation-Ion Balance								
Anion	5.08	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation	3.90	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation/Anion, % Difference	13.1	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	140	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Total (As CaCO3)	140	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Specific Conductance-SM2510 B								
Conductivity	430	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	300	20		mg/L	1	08/02/2021 0753	08/11/2021 1000	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	140	10		mg/L	1	07/30/2021 0953	08/02/2021 1101	EJ
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016961

Client:	Rosemont Copper Company	**Client Sample ID:**	BC2-072721
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/27/2021 0949
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-10	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	25	10		mg/L	5	08/10/2021 1530	08/10/2021 1730	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-11

Client Sample ID: BCD-072721
Collection Date/Time: 07/27/2021 0950
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	160	22		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	140			mg/L	1	08/06/2021 1035	08/10/2021 1127	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	12			mg/L	5	07/27/2021 1024	08/03/2021 0430	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	12	0.10		mg/L	5	07/27/2021 1024	08/03/2021 0430	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.035	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Calcium	54	4.0		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Magnesium	6.5	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Potassium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Silica	23	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
Sodium	14	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1326	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Antimony	0.00083	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Arsenic	0.0023	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Barium	0.069	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Cadmium	0.00093	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Cobalt	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Copper	0.0059	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Manganese	0.030	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Molybdenum	0.0020	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Nickel	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
Selenium	0.00078	0.0025	E4	mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1152	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1612	CR
CVAA Dissolved Mercury-E 245.1								

RCC-CW016963

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-11

Client Sample ID: BCD-072721
Collection Date/Time: 07/27/2021 0950
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1408	MH
pH-E150.1								
pH (pH Units)	7.9		H5	-	1	08/02/2021 1350	08/02/2021 1413	CWB
Temperature (°C)	21		H5	-	1	08/02/2021 1350	08/02/2021 1413	CWB
Turbidity-E180.1								
Turbidity	6.2	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.17	0.50	E4	mg/L	1	08/06/2021 1035	08/10/2021 1128	MH
Calcium	56	20		mg/L	1	08/06/2021 1035	08/10/2021 1127	MH
Iron	0.45	1.5	E4	mg/L	1	08/06/2021 1035	08/10/2021 1127	MH
Magnesium	ND	15	D5	mg/L	1	08/06/2021 1035	08/10/2021 1127	MH
Potassium	ND	25	D5	mg/L	1	08/06/2021 1035	08/10/2021 1127	MH
Silica	26	1.0		mg/L	1	08/06/2021 1035	08/10/2021 1128	MH
Sodium	ND	25	D5	mg/L	1	08/06/2021 1035	08/10/2021 1642	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	0.37	0.20		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Antimony	ND	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Arsenic	0.0027	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Barium	0.12	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Beryllium	ND	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Cadmium	ND	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Chromium	ND	0.0025	B5	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Cobalt	ND	0.00125		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Copper	0.017	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Lead	ND	0.0025		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Manganese	0.21	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Molybdenum	0.0024	0.0013		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Nickel	0.010	0.0025	B5	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Selenium	0.0028	0.013	E4	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Silver	ND	0.0025	E8	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Thallium	0.00014	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Uranium	0.00042	0.0025	E4	mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
Zinc	ND	0.20		mg/L	1	08/03/2021 1045	08/04/2021 1216	CR
CVAA Total Mercury-E245.1								
Mercury	ND	0.0050	E8	mg/L	1	08/09/2021 0714	08/09/2021 1231	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-11

Client Sample ID: BCD-072721
Collection Date/Time: 07/27/2021 0950
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	9.8	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0431	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0431	JG
Nitrogen, Nitrate (As N)	12	2.5	H2	mg/L	5	07/27/2021 1024	08/03/2021 0430	JG
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0431	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0431	JG
Sulfate	20	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0431	JG
Calculation-Ion Balance								
Anion	4.73	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation	3.84	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation/Anion, % Difference	10.4	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	110	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Carbonate (As CaCO3)	16	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Phenolphthalein (As CaCO3)	8.0	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Alkalinity, Total (As CaCO3)	120	2.0		mg/L	1	08/06/2021 1540	08/06/2021 1750	EJ
Specific Conductance-SM2510 B								
Conductivity	430	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	300	20		mg/L	1	08/02/2021 0753	08/11/2021 1000	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	78	10		mg/L	1	07/30/2021 0953	08/02/2021 1101	EJ
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016965

Client:	Rosemont Copper Company	**Client Sample ID:**	BCD-072721
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/27/2021 0950
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-11	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	25	10		mg/L	5	08/10/2021 1530	08/10/2021 1730	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-12

Client Sample ID: DC3-072721
Collection Date/Time: 07/22/2021 2241
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	67	22		mg/L	1	07/29/2021 1805	08/10/2021 1335	MH
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	750			mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	2.0			mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	2.0	0.10		mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
ICP Dissolved Metals-E 200.7 (4.4)								
Boron	0.032	0.10	E4	mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
Calcium	27	4.0		mg/L	1	07/29/2021 1805	08/10/2021 1335	MH
Iron	ND	0.30		mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
Magnesium	ND	3.0		mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
Potassium	5.4	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
Silica	7.3	0.20		mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
Sodium	ND	5.0		mg/L	1	07/29/2021 1805	08/06/2021 1352	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)								
Aluminum	0.057	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Antimony	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Arsenic	0.0030	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Barium	0.090	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Beryllium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Cadmium	ND	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Chromium	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Cobalt	0.00068	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Copper	0.0071	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Lead	ND	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Manganese	0.17	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Molybdenum	0.0027	0.00025		mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Nickel	0.0011	0.00050		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
Selenium	ND	0.0025	E8	mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Silver	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Thallium	ND	0.00050	E8	mg/L	1	07/29/2021 1805	08/05/2021 1155	CR
Zinc	ND	0.040		mg/L	1	07/29/2021 1805	08/05/2021 1616	CR
CVAA Dissolved Mercury-E 245.1								

RCC-CW016967

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-12

Client Sample ID: DC3-072721
Collection Date/Time: 07/22/2021 2241
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	08/02/2021 0858	08/02/2021 1411	MH
pH-E150.1								
pH (pH Units)	7.6		H5	-	1	08/02/2021 1350	08/02/2021 1414	CWB
Temperature (°C)	19		H5	-	1	08/02/2021 1350	08/02/2021 1414	CWB
Turbidity-E180.1								
Turbidity	34	0.10	H1	NTU	1	08/02/2021 1500	08/02/2021 1553	CWB
ICP Total Metals-E200.7 (4.4)								
Boron	0.25	0.10	E4	mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Calcium	250	4.0		mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Iron	77	0.30		mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Magnesium	32	3.0		mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Potassium	26	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1131	MH
Silica	140	4.0		mg/L	20	08/06/2021 1035	08/10/2021 1143	MH
Sodium	ND	5.0		mg/L	1	08/06/2021 1035	08/10/2021 1728	MH
ICP/MS Total Metals-E200.8 (5.4)								
Aluminum	75	4.0		mg/L	100	08/06/2021 1115	08/10/2021 1451	MH
Antimony	ND	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Arsenic	0.019	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Barium	2.0	0.050		mg/L	100	08/06/2021 1115	08/10/2021 1451	MH
Beryllium	0.0065	0.00025		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Cadmium	0.0025	0.00025		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Chromium	0.032	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Cobalt	0.0381	0.000250		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Copper	0.17	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Lead	0.16	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Manganese	4.4	0.025		mg/L	100	08/06/2021 1115	08/10/2021 1451	MH
Molybdenum	0.00076	0.00025		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Nickel	0.038	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Selenium	0.077	0.0025		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Silver	0.00050	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Thallium	0.00098	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Uranium	0.0024	0.00050		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
Zinc	0.38	0.040		mg/L	1	08/06/2021 1115	08/10/2021 1355	MH
CVAA Total Mercury-E245.1								
Mercury	ND	0.0020	E8	mg/L	1	08/09/2021 0714	08/09/2021 1234	MH

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Lab Sample ID: 21G0695-12

Client Sample ID: DC3-072721
Collection Date/Time: 07/22/2021 2241
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)								
Chloride	2.6	1.0		mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Fluoride	ND	0.50		mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Nitrogen, Nitrate (As N)	2.0	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Nitrogen, Nitrite (As N)	ND	0.10	H3	mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Sulfate	ND	5.0		mg/L	1	07/27/2021 1024	07/28/2021 0449	JG
Calculation-Ion Balance								
Anion	2.99	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation	1.50	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Cation/Anion, % Difference	33.2	0.00		meq/L	1	08/12/2021 1004	08/12/2021 1005	KB
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	130	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Alkalinity, Total (As CaCO3)	130	2.0		mg/L	1	08/05/2021 1240	08/05/2021 1735	EJ
Specific Conductance-SM2510 B								
Conductivity	210	0.10		µmhos/cm	1	08/03/2021 1510	08/03/2021 1537	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	220	20		mg/L	1	07/29/2021 0808	08/03/2021 0908	EJ
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	7200	10		mg/L	1	07/29/2021 0810	07/30/2021 0803	JG
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/04/2021 1030	08/04/2021 1633	JG
Silica-SM4500-SiO2 C								

RCC-CW016969

Client:	Rosemont Copper Company	**Client Sample ID:**	DC3-072721
Project:	Baseline Stormwater Monitoring	**Collection Date/Time:**	07/22/2021 2241
Work Order:	21G0695	**Matrix:**	Storm Water
Lab Sample ID:	21G0695-12	**Order Name:**	Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Silica	6.6	2.0		mg/L	1	08/10/2021 1530	08/10/2021 1730	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107362 - E 200.7 (4.4)										
Blank (2107362-BLK1)				Prepared & Analyzed: 07/30/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2107362-BS1)				Prepared & Analyzed: 07/30/2021						
Boron	0.96	0.10	mg/L	1.000		96	85-115			
Calcium	10	4.0	mg/L	10.00		104	85-115			
Iron	0.98	0.30	mg/L	1.000		98	85-115			
Magnesium	9.8	3.0	mg/L	10.00		98	85-115			
Potassium	9.6	5.0	mg/L	10.00		96	85-115			
Sodium	10	5.0	mg/L	10.00		100	85-115			
LCS (2107362-BS3)				Prepared & Analyzed: 07/30/2021						
Potassium	ND	5.0	mg/L				85-115			
Silica	2.1	0.20	mg/L	2.143		97	85-115			
LCS Dup (2107362-BSD1)				Prepared & Analyzed: 07/30/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115	0.07	20	
Calcium	10	4.0	mg/L	10.00		103	85-115	0.6	20	
Iron	0.97	0.30	mg/L	1.000		97	85-115	0.4	20	
Magnesium	9.8	3.0	mg/L	10.00		98	85-115	0.4	20	
Potassium	9.7	5.0	mg/L	10.00		97	85-115	0.5	20	
Sodium	10	5.0	mg/L	10.00		100	85-115	0.1	20	
LCS Dup (2107362-BSD3)				Prepared & Analyzed: 07/30/2021						
Potassium	ND	5.0	mg/L				85-115		20	
Silica	2.0	0.20	mg/L	2.143		96	85-115	2	20	
Matrix Spike (2107362-MS1)	**Source: 21G0429-01**			Prepared & Analyzed: 07/30/2021						
Boron	1.1	0.10	mg/L	1.000	0.026	112	70-130			
Calcium	42	4.0	mg/L	10.00	33	95	70-130			
Iron	1.0	0.30	mg/L	1.000	0.012	101	70-130			
Magnesium	12	3.0	mg/L	10.00	2.5	98	70-130			
Potassium	13	5.0	mg/L	10.00	3.8	94	70-130			
Sodium	11	5.0	mg/L	10.00	0.91	105	70-130			
Matrix Spike (2107362-MS2)	**Source: 21G0609-02**			Prepared & Analyzed: 07/30/2021						
Boron	1.2	0.10	mg/L	1.000	0.10	109	70-130			
Calcium	58	4.0	mg/L	10.00	48	93	70-130			
Iron	1.0	0.30	mg/L	1.000	0.0092	103	70-130			
Magnesium	16	3.0	mg/L	10.00	5.9	99	70-130			
Potassium	22	5.0	mg/L	10.00	13	92	70-130			
Sodium	37	5.0	mg/L	10.00	28	97	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107362 - E 200.7 (4.4)										
Matrix Spike (2107362-MS3)		**Source: 21G0612-01**		Prepared & Analyzed: 07/30/2021						
Potassium	9.7	5.0	mg/L		9.7		70-130			
Silica	13	0.20	mg/L		11		70-130			
Matrix Spike (2107362-MS4)		**Source: 21G0635-03**		Prepared & Analyzed: 07/30/2021						
Potassium	ND	5.0	mg/L		4.3		70-130			
Silica	5.9	0.20	mg/L		3.8		70-130			
Batch 2107364 - E 200.8 (5.4)										
Blank (2107364-BLK1)				Prepared & Analyzed: 07/30/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000082	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							
LCS (2107364-BS1)				Prepared & Analyzed: 07/30/2021						
Aluminum	0.10	0.040	mg/L	0.1000		100	85-115			
Antimony	0.052	0.00050	mg/L	0.05000		104	85-115			
Arsenic	0.049	0.00050	mg/L	0.05000		97	85-115			
Barium	0.049	0.00050	mg/L	0.05000		97	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		96	85-115			
Cadmium	0.052	0.00025	mg/L	0.05000		105	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115			
Cobalt	0.048	0.00025	mg/L	0.05000		96	85-115			
Copper	0.049	0.00050	mg/L	0.05000		97	85-115			
Lead	0.048	0.00050	mg/L	0.05000		97	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115			
Molybdenum	0.050	0.00025	mg/L	0.05000		101	85-115			
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		98	85-115			
Silver	0.044	0.00050	mg/L	0.05000		89	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Zinc	0.11	0.040	mg/L	0.1000		106	85-115			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107364 - E 200.8 (5.4)										
LCS Dup (2107364-BSD1)				Prepared & Analyzed: 07/30/2021						
Aluminum	0.099	0.040	mg/L	0.1000		99	85-115	0.8	20	
Antimony	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Arsenic	0.049	0.00050	mg/L	0.05000		98	85-115	0.8	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	1	20	
Beryllium	0.049	0.00025	mg/L	0.05000		97	85-115	0.7	20	
Cadmium	0.050	0.00025	mg/L	0.05000		100	85-115	5	20	
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115	0.4	20	
Cobalt	0.049	0.00025	mg/L	0.05000		97	85-115	1	20	
Copper	0.048	0.00050	mg/L	0.05000		96	85-115	0.7	20	
Lead	0.049	0.00050	mg/L	0.05000		97	85-115	0.4	20	
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115	0.2	20	
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115	2	20	
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115	0.9	20	
Selenium	0.050	0.0025	mg/L	0.05000		100	85-115	2	20	
Silver	0.044	0.00050	mg/L	0.05000		89	85-115	0.04	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.8	20	
Zinc	0.10	0.040	mg/L	0.1000		105	85-115	1	20	
Matrix Spike (2107364-MS1)		**Source: 21G0481-01**		Prepared & Analyzed: 07/30/2021						
Aluminum	0.12	0.040	mg/L	0.1000	ND	115	70-130			
Antimony	0.064	0.00050	mg/L	0.05000	0.0074	114	70-130			
Arsenic	0.060	0.00050	mg/L	0.05000	0.0046	111	70-130			
Barium	0.15	0.00050	mg/L	0.05000	0.094	106	70-130			
Beryllium	0.053	0.00025	mg/L	0.05000	0.000019	106	70-130			
Cadmium	0.053	0.00025	mg/L	0.05000	ND	106	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.00028	103	70-130			
Cobalt	0.051	0.00025	mg/L	0.05000	0.00025	101	70-130			
Copper	0.057	0.00050	mg/L	0.05000	0.0083	97	70-130			
Lead	0.054	0.00050	mg/L	0.05000	0.00013	108	70-130			
Manganese	0.080	0.00025	mg/L	0.05000	0.026	106	70-130			
Molybdenum	0.061	0.00025	mg/L	0.05000	0.0057	110	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.00053	97	70-130			
Selenium	0.058	0.0025	mg/L	0.05000	0.00064	115	70-130			
Silver	0.049	0.00050	mg/L	0.05000	0.00012	97	70-130			
Thallium	0.054	0.00050	mg/L	0.05000	0.000028	109	70-130			
Zinc	0.11	0.040	mg/L	0.1000	ND	114	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107364 - E 200.8 (5.4)										
Matrix Spike (2107364-MS2)	**Source: 21G0635-01**			Prepared & Analyzed: 07/30/2021						
Aluminum	0.12	0.040	mg/L	0.1000	0.014	107	70-130			
Antimony	0.056	0.00050	mg/L	0.05000	0.000084	113	70-130			
Arsenic	0.057	0.00050	mg/L	0.05000	0.00016	113	70-130			
Barium	0.076	0.00050	mg/L	0.05000	0.020	111	70-130			
Beryllium	0.052	0.00025	mg/L	0.05000	0.000077	103	70-130			
Cadmium	0.057	0.00025	mg/L	0.05000	0.0017	111	70-130			
Chromium	0.053	0.00050	mg/L	0.05000	0.00011	106	70-130			
Cobalt	0.061	0.00025	mg/L	0.05000	0.0098	103	70-130			
Copper	0.36	0.00050	mg/L	0.05000	0.32	90	70-130			
Lead	0.056	0.00050	mg/L	0.05000	ND	112	70-130			
Manganese	0.94	0.0025	mg/L	0.05000	0.86	162	70-130			M1
Molybdenum	0.049	0.0025	mg/L	0.05000	0.00029	96	70-130			
Nickel	0.053	0.00050	mg/L	0.05000	0.0044	98	70-130			
Selenium	0.060	0.0025	mg/L	0.05000	0.0010	118	70-130			
Silver	0.050	0.00050	mg/L	0.05000	0.00018	100	70-130			
Thallium	0.056	0.00050	mg/L	0.05000	0.000029	113	70-130			
Zinc	0.35	0.040	mg/L	0.1000	0.26	97	70-130			
Batch 2107365 - E 200.8 (5.4)										
Blank (2107365-BLK1)				Prepared: 07/30/2021 Analyzed: 08/05/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107365 - E 200.8 (5.4)										
LCS (2107365-BS1)				Prepared: 07/30/2021 Analyzed: 08/05/2021						
Aluminum	0.10	0.040	mg/L	0.1000		102	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115			
Barium	0.050	0.00050	mg/L	0.05000		100	85-115			
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		99	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115			
Cobalt	0.049	0.00025	mg/L	0.05000		97	85-115			
Copper	0.048	0.00050	mg/L	0.05000		95	85-115			
Lead	0.048	0.00050	mg/L	0.05000		96	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115			
Nickel	0.048	0.00050	mg/L	0.05000		96	85-115			
Selenium	0.052	0.0025	mg/L	0.05000		103	85-115			
Silver	0.045	0.00050	mg/L	0.05000		90	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		95	85-115			
Zinc	0.10	0.040	mg/L	0.1000		101	85-115			
LCS Dup (2107365-BSD1)				Prepared: 07/30/2021 Analyzed: 08/05/2021						
Aluminum	0.10	0.040	mg/L	0.1000		102	85-115	0.2	20	
Antimony	0.048	0.00050	mg/L	0.05000		96	85-115	2	20	
Arsenic	0.049	0.00050	mg/L	0.05000		97	85-115	2	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	3	20	
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115	0.2	20	
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115	1	20	
Chromium	0.048	0.00050	mg/L	0.05000		97	85-115	1	20	
Cobalt	0.048	0.00025	mg/L	0.05000		96	85-115	1	20	
Copper	0.048	0.00050	mg/L	0.05000		95	85-115	0.2	20	
Lead	0.048	0.00050	mg/L	0.05000		96	85-115	0.1	20	
Manganese	0.048	0.00025	mg/L	0.05000		97	85-115	1	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		97	85-115	2	20	
Nickel	0.047	0.00050	mg/L	0.05000		95	85-115	1	20	
Selenium	0.047	0.0025	mg/L	0.05000		95	85-115	8	20	
Silver	0.045	0.00050	mg/L	0.05000		89	85-115	0.7	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.8	20	
Zinc	0.10	0.040	mg/L	0.1000		100	85-115	1	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107365 - E 200.8 (5.4)										
Matrix Spike (2107365-MS1)		**Source: 21G0695-04**		Prepared: 07/30/2021 Analyzed: 08/05/2021						
Aluminum	0.11	0.040	mg/L	0.1000	ND	113	70-130			
Antimony	0.054	0.00050	mg/L	0.05000	0.0039	100	70-130			
Arsenic	0.054	0.00050	mg/L	0.05000	0.0036	102	70-130			
Barium	0.068	0.00050	mg/L	0.05000	0.019	99	70-130			
Beryllium	0.051	0.00025	mg/L	0.05000	ND	102	70-130			
Cadmium	0.049	0.00025	mg/L	0.05000	ND	98	70-130			
Chromium	0.048	0.00050	mg/L	0.05000	0.00013	96	70-130			
Cobalt	0.047	0.00025	mg/L	0.05000	0.00024	94	70-130			
Copper	0.17	0.00050	mg/L	0.05000	0.12	91	70-130			
Lead	0.049	0.00050	mg/L	0.05000	0.000068	99	70-130			
Manganese	0.17	0.00025	mg/L	0.05000	0.12	98	70-130			
Molybdenum	0.073	0.00025	mg/L	0.05000	0.024	99	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.00081	92	70-130			
Selenium	0.054	0.0025	mg/L	0.05000	ND	108	70-130			
Silver	0.044	0.00050	mg/L	0.05000	0.00012	89	70-130			
Thallium	0.051	0.00050	mg/L	0.05000	0.000024	101	70-130			
Zinc	0.10	0.040	mg/L	0.1000	ND	103	70-130			
Batch 2107367 - E 200.7 (4.4)										
Blank (2107367-BLK1)				Prepared & Analyzed: 08/06/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2107367-BS1)				Prepared & Analyzed: 08/06/2021						
Boron	0.94	0.10	mg/L	1.000		94	85-115			
Calcium	9.6	4.0	mg/L	10.00		96	85-115			
Iron	0.91	0.30	mg/L	1.000		91	85-115			
Magnesium	9.3	3.0	mg/L	10.00		93	85-115			
Potassium	10	5.0	mg/L	10.00		101	85-115			
Sodium	10	5.0	mg/L	10.00		105	85-115			
LCS (2107367-BS2)				Prepared & Analyzed: 08/06/2021						
Silica	2.3	0.20	mg/L	2.143		109	85-115			
LCS Dup (2107367-BSD1)				Prepared & Analyzed: 08/06/2021						
Boron	0.94	0.10	mg/L	1.000		94	85-115	0.2	20	
Calcium	9.6	4.0	mg/L	10.00		96	85-115	0.09	20	
Iron	0.91	0.30	mg/L	1.000		91	85-115	0.3	20	
Magnesium	9.3	3.0	mg/L	10.00		93	85-115	0.2	20	
Potassium	10	5.0	mg/L	10.00		101	85-115	0.002	20	
Sodium	10	5.0	mg/L	10.00		105	85-115	0.3	20	
LCS Dup (2107367-BSD2)				Prepared & Analyzed: 08/06/2021						
Silica	2.3	0.20	mg/L	2.143		108	85-115	1	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107367 - E 200.7 (4.4)										
Matrix Spike (2107367-MS1)		**Source: 21G0743-01**		Prepared & Analyzed: 08/06/2021						
Boron	1.1	0.10	mg/L	1.000	0.047	104	70-130			
Calcium	120	4.0	mg/L	10.00	110	51	70-130			M3
Iron	1.1	0.30	mg/L	1.000	0.14	92	70-130			
Magnesium	28	3.0	mg/L	10.00	19	89	70-130			
Potassium	22	5.0	mg/L	10.00	12	101	70-130			
Sodium	35	5.0	mg/L	10.00	25	104	70-130			
Matrix Spike (2107367-MS2)		**Source: 21G0695-07**		Prepared & Analyzed: 08/06/2021						
Boron	1.2	0.10	mg/L	1.000	0.020	121	70-130			
Calcium	25	4.0	mg/L	10.00	16	97	70-130			
Iron	1.0	0.30	mg/L	1.000	0.015	99	70-130			
Magnesium	11	3.0	mg/L	10.00	0.93	101	70-130			
Potassium	15	5.0	mg/L	10.00	3.1	117	70-130			
Sodium	13	5.0	mg/L	10.00	ND	126	70-130			
Matrix Spike (2107367-MS3)		**Source: 21G0743-01**		Prepared & Analyzed: 08/06/2021						
Silica	35	0.20	mg/L	2.143	33	80	70-130			
Matrix Spike (2107367-MS4)		**Source: 21G0695-07**		Prepared & Analyzed: 08/06/2021						
Silica	6.2	0.20	mg/L	2.143	3.9	108	70-130			
Batch 2108007 - E 245.1										
Blank (2108007-BLK1)				Prepared & Analyzed: 08/02/2021						
Mercury	ND	0.0010	mg/L							
LCS (2108007-BS1)				Prepared & Analyzed: 08/02/2021						
Mercury	0.0049	0.0010	mg/L	0.005000		98	85-115			
LCS Dup (2108007-BSD1)				Prepared & Analyzed: 08/02/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115	2	20	
Matrix Spike (2108007-MS1)		**Source: 21G0695-10**		Prepared & Analyzed: 08/02/2021						
Mercury	0.0047	0.0010	mg/L	0.005000	ND	94	70-130			
Matrix Spike (2108007-MS2)		**Source: 21G0743-01**		Prepared & Analyzed: 08/02/2021						
Mercury	0.0048	0.0010	mg/L	0.005000	0.0000082	96	70-130			
Matrix Spike Dup (2108007-MSD1)		**Source: 21G0695-10**		Prepared & Analyzed: 08/02/2021						
Mercury	0.0046	0.0010	mg/L	0.005000	ND	92	70-130	2	20	
Matrix Spike Dup (2108007-MSD2)		**Source: 21G0743-01**		Prepared & Analyzed: 08/02/2021						
Mercury	0.0048	0.0010	mg/L	0.005000	0.0000082	96	70-130	0.2	20	
Batch 2108048 - E245.1										
Blank (2108048-BLK1)				Prepared & Analyzed: 08/04/2021						
Mercury	ND	0.0010	mg/L							
LCS (2108048-BS1)				Prepared & Analyzed: 08/04/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108048 - E245.1										
LCS Dup (2108048-BSD1)				Prepared & Analyzed: 08/04/2021						
Mercury	0.0052	0.0010	mg/L	0.005000		103	85-115	0.3	20	
Matrix Spike (2108048-MS1)		**Source: 21G0685-01**		Prepared & Analyzed: 08/04/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130			
Matrix Spike (2108048-MS2)		**Source: 21G0701-01**		Prepared & Analyzed: 08/04/2021						
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130			
Matrix Spike Dup (2108048-MSD1)		**Source: 21G0685-01**		Prepared & Analyzed: 08/04/2021						
Mercury	0.0050	0.0010	mg/L	0.005000	ND	99	70-130	2	20	
Matrix Spike Dup (2108048-MSD2)		**Source: 21G0701-01**		Prepared & Analyzed: 08/04/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130	2	20	
Batch 2108052 - E200.8 (5.4)										
Blank (2108052-BLK1)				Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	0.0016	0.00050	mg/L							B1
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	0.00078	0.00050	mg/L							B1
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	0.000029	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108052 - E200.8 (5.4)										
LCS (2108052-BS1)				Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	0.11	0.040	mg/L	0.1000		108	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		103	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.052	0.00025	mg/L	0.05000		104	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		101	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.0486	0.000250	mg/L	0.05000		97	85-115			
Copper	0.049	0.00050	mg/L	0.05000		99	85-115			
Lead	0.049	0.00050	mg/L	0.05000		98	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		99	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		96	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		97	85-115			
Selenium	0.054	0.0025	mg/L	0.05000		108	85-115			
Silver	0.048	0.00050	mg/L	0.05000		97	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		97	85-115			
Zinc	0.11	0.040	mg/L	0.1000		110	85-115			
LCS Dup (2108052-BSD1)				Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	0.11	0.040	mg/L	0.1000		106	85-115	2	20	
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115	0.3	20	
Arsenic	0.052	0.00050	mg/L	0.05000		103	85-115	0.4	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	0.05	20	
Beryllium	0.052	0.00025	mg/L	0.05000		103	85-115	0.7	20	
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115	0.7	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Cobalt	0.0482	0.000250	mg/L	0.05000		96	85-115	0.8	20	
Copper	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	0.002	20	
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115	3	20	
Molybdenum	0.048	0.00025	mg/L	0.05000		96	85-115	0.5	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	0.5	20	
Selenium	0.055	0.0025	mg/L	0.05000		111	85-115	2	20	
Silver	0.049	0.00050	mg/L	0.05000		97	85-115	0.5	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.06	20	
Uranium	0.049	0.00050	mg/L	0.05000		97	85-115	0.2	20	
Zinc	0.11	0.040	mg/L	0.1000		109	85-115	0.9	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108052 - E200.8 (5.4)										
Matrix Spike (2108052-MS1)		**Source: 21G0695-01**		Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	9.8	4.0	mg/L	0.1000	9.6	173	70-130			M3
Antimony	0.047	0.00050	mg/L	0.05000	0.00035	93	70-130			
Arsenic	0.053	0.00050	mg/L	0.05000	0.0020	101	70-130			
Barium	0.070	0.00050	mg/L	0.05000	0.021	98	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	0.0033	94	70-130			
Cadmium	0.062	0.00025	mg/L	0.05000	0.014	96	70-130			
Chromium	0.054	0.00050	mg/L	0.05000	0.0016	104	70-130			
Cobalt	0.0870	0.000250	mg/L	0.05000	0.0412	92	70-130			
Copper	22	0.050	mg/L	0.05000	22	NR	70-130			M3
Lead	0.060	0.00050	mg/L	0.05000	0.012	96	70-130			
Manganese	4.2	0.025	mg/L	0.05000	4.1	131	70-130			M3
Molybdenum	0.051	0.00025	mg/L	0.05000	0.0047	93	70-130			
Nickel	0.063	0.00050	mg/L	0.05000	0.017	93	70-130			
Selenium	0.070	0.0025	mg/L	0.05000	0.018	106	70-130			
Silver	0.047	0.00050	mg/L	0.05000	0.0010	92	70-130			
Thallium	0.049	0.00050	mg/L	0.05000	0.00054	96	70-130			
Uranium	0.058	0.00050	mg/L	0.05000	0.0058	105	70-130			
Zinc	ND	0.040	mg/L	0.1000	2.2	NR	70-130			
Matrix Spike (2108052-MS2)		**Source: 21G0695-10**		Prepared: 08/03/2021 Analyzed: 08/04/2021						
Aluminum	0.49	0.040	mg/L	0.1000	0.40	94	70-130			
Antimony	0.047	0.00050	mg/L	0.05000	0.00083	93	70-130			
Arsenic	0.053	0.00050	mg/L	0.05000	0.0027	100	70-130			
Barium	0.13	0.00050	mg/L	0.05000	0.087	88	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	0.000049	100	70-130			
Cadmium	0.048	0.00025	mg/L	0.05000	0.000062	96	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.00048	104	70-130			
Cobalt	0.0461	0.000250	mg/L	0.05000	0.000329	92	70-130			
Copper	0.051	0.00050	mg/L	0.05000	0.0076	87	70-130			
Lead	0.051	0.00050	mg/L	0.05000	0.0023	97	70-130			
Manganese	0.097	0.00025	mg/L	0.05000	0.058	78	70-130			
Molybdenum	0.051	0.00025	mg/L	0.05000	0.0021	97	70-130			
Nickel	0.050	0.00050	mg/L	0.05000	0.0020	95	70-130			
Selenium	0.050	0.0025	mg/L	0.05000	0.0017	97	70-130			
Silver	0.045	0.00050	mg/L	0.05000	ND	89	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00035	96	70-130			
Uranium	0.052	0.00050	mg/L	0.05000	0.00045	104	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.018	99	70-130			
Batch 2108107 - E245.1										
Blank (2108107-BLK1)				Prepared & Analyzed: 08/09/2021						
Mercury	ND	0.0010	mg/L							
LCS (2108107-BS1)				Prepared & Analyzed: 08/09/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115			
LCS Dup (2108107-BSD1)				Prepared & Analyzed: 08/09/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115	0.2	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108107 - E245.1										
Matrix Spike (2108107-MS1)		**Source: 21G0727-01**		Prepared & Analyzed: 08/09/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130			
Matrix Spike (2108107-MS2)		**Source: 21G0740-01**		Prepared & Analyzed: 08/09/2021						
Mercury	0.0052	0.0010	mg/L	0.005000	ND	103	70-130			
Matrix Spike Dup (2108107-MSD1)		**Source: 21G0727-01**		Prepared & Analyzed: 08/09/2021						
Mercury	0.0052	0.0010	mg/L	0.005000	ND	103	70-130	2	20	
Matrix Spike Dup (2108107-MSD2)		**Source: 21G0740-01**		Prepared & Analyzed: 08/09/2021						
Mercury	0.0052	0.0010	mg/L	0.005000	ND	104	70-130	0.7	20	
Batch 2108109 - E200.7 (4.4)										
Blank (2108109-BLK1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	0.0059	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2108109-BS1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Boron	0.98	0.10	mg/L	1.000		98	85-115			
Calcium	10	4.0	mg/L	10.00		104	85-115			
Iron	1.0	0.30	mg/L	1.000		101	85-115			
Magnesium	10	3.0	mg/L	10.00		101	85-115			
Potassium	9.5	5.0	mg/L	10.00		95	85-115			
Sodium	10	5.0	mg/L	10.00		104	85-115			
LCS (2108109-BS2)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Silica	9.4	0.20	mg/L	10.00		94	85-115			
LCS Dup (2108109-BSD1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Boron	0.97	0.10	mg/L	1.000		97	85-115	1	20	
Calcium	10	4.0	mg/L	10.00		102	85-115	2	20	
Iron	0.99	0.30	mg/L	1.000		99	85-115	2	20	
Magnesium	10	3.0	mg/L	10.00		100	85-115	2	20	
Potassium	9.3	5.0	mg/L	10.00		93	85-115	2	20	
Sodium	10	5.0	mg/L	10.00		101	85-115	2	20	
LCS Dup (2108109-BSD2)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Silica	9.3	0.20	mg/L	10.00		93	85-115	0.5	20	
Matrix Spike (2108109-MS1)		**Source: 21G0653-01**		Prepared: 08/06/2021 Analyzed: 08/09/2021						
Boron	1.0	0.10	mg/L	1.000	0.066	96	70-130			
Calcium	28	4.0	mg/L	10.00	18	101	70-130			
Iron	1.7	0.30	mg/L	1.000	0.57	108	70-130			
Magnesium	14	3.0	mg/L	10.00	4.6	99	70-130			
Potassium	12	5.0	mg/L	10.00	2.9	93	70-130			
Sodium	51	5.0	mg/L	10.00	40	105	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108109 - E200.7 (4.4)										
Matrix Spike (2108109-MS2)	**Source: 21H0104-01**			Prepared: 08/06/2021 Analyzed: 08/09/2021						
Boron	1.0	0.10	mg/L	1.000	0.048	97	70-130			
Calcium	73	4.0	mg/L	10.00	64	90	70-130			
Iron	1.2	0.30	mg/L	1.000	0.18	99	70-130			
Magnesium	30	3.0	mg/L	10.00	21	93	70-130			
Potassium	150	5.0	mg/L	10.00	140	53	70-130			M3
Sodium	250	5.0	mg/L	10.00	250	31	70-130			M3
Matrix Spike (2108109-MS3)	**Source: 21G0695-10**			Prepared: 08/06/2021 Analyzed: 08/09/2021						
Silica	34	0.20	mg/L	10.00	25	88	70-130			
Matrix Spike (2108109-MS4)	**Source: 21H0104-01**			Prepared: 08/06/2021 Analyzed: 08/09/2021						
Silica	30	0.20	mg/L	10.00	22	90	70-130			
Batch 2108111 - E200.8 (5.4)										
Blank (2108111-BLK1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000029	0.00050	mg/L							
Thallium	0.000054	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108111 - E200.8 (5.4)										
LCS (2108111-BS1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Aluminum	0.11	0.040	mg/L	0.1000		106	85-115			
Antimony	0.051	0.00050	mg/L	0.05000		102	85-115			
Arsenic	0.052	0.00050	mg/L	0.05000		103	85-115			
Barium	0.049	0.00050	mg/L	0.05000		99	85-115			
Beryllium	0.052	0.00025	mg/L	0.05000		104	85-115			
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.0494	0.000250	mg/L	0.05000		99	85-115			
Copper	0.050	0.00050	mg/L	0.05000		100	85-115			
Lead	0.049	0.00050	mg/L	0.05000		98	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		99	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115			
Nickel	0.050	0.00050	mg/L	0.05000		99	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		98	85-115			
Silver	0.049	0.00050	mg/L	0.05000		99	85-115			
Thallium	0.049	0.00050	mg/L	0.05000		97	85-115			
Uranium	0.049	0.00050	mg/L	0.05000		98	85-115			
Zinc	0.11	0.040	mg/L	0.1000		110	85-115			
LCS Dup (2108111-BSD1)				Prepared: 08/06/2021 Analyzed: 08/09/2021						
Aluminum	0.10	0.040	mg/L	0.1000		105	85-115	0.5	20	
Antimony	0.051	0.00050	mg/L	0.05000		101	85-115	0.6	20	
Arsenic	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Barium	0.049	0.00050	mg/L	0.05000		99	85-115	0.2	20	
Beryllium	0.051	0.00025	mg/L	0.05000		103	85-115	0.9	20	
Cadmium	0.052	0.00025	mg/L	0.05000		104	85-115	1	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Cobalt	0.0483	0.000250	mg/L	0.05000		97	85-115	2	20	
Copper	0.049	0.00050	mg/L	0.05000		98	85-115	2	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	0.2	20	
Manganese	0.048	0.00025	mg/L	0.05000		97	85-115	2	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		97	85-115	0.8	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Selenium	0.057	0.0025	mg/L	0.05000		115	85-115	15	20	
Silver	0.050	0.00050	mg/L	0.05000		99	85-115	0.3	20	
Thallium	0.049	0.00050	mg/L	0.05000		97	85-115	0.1	20	
Uranium	0.049	0.00050	mg/L	0.05000		98	85-115	0.5	20	
Zinc	0.11	0.040	mg/L	0.1000		106	85-115	3	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108111 - E200.8 (5.4)										
Matrix Spike (2108111-MS1)		**Source: 21G0644-01**		Prepared: 08/06/2021 Analyzed: 08/10/2021						
Aluminum	ND	0.40	mg/L	0.1000	ND		70-130			M4
Antimony	0.051	0.00050	mg/L	0.05000	ND	102	70-130			
Arsenic	0.052	0.00050	mg/L	0.05000	0.00035	103	70-130			
Barium	0.062	0.00050	mg/L	0.05000	0.012	100	70-130			
Beryllium	0.048	0.0025	mg/L	0.05000	ND	97	70-130			
Cadmium	0.044	0.00025	mg/L	0.05000	ND	89	70-130			
Chromium	0.049	0.0050	mg/L	0.05000	0.00033	96	70-130			
Cobalt	0.0466	0.00250	mg/L	0.05000	ND	93	70-130			
Copper	0.047	0.0050	mg/L	0.05000	0.0031	88	70-130			
Lead	0.049	0.00050	mg/L	0.05000	0.000065	99	70-130			
Manganese	0.75	0.0025	mg/L	0.05000	0.68	138	70-130			M3
Molybdenum	0.052	0.00025	mg/L	0.05000	0.0023	100	70-130			
Nickel	0.046	0.0050	mg/L	0.05000	ND	91	70-130			
Selenium	0.059	0.0025	mg/L	0.05000	0.0033	111	70-130			
Silver	0.039	0.00050	mg/L	0.05000	0.00035	77	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	0.00018	100	70-130			
Uranium	0.054	0.00050	mg/L	0.05000	0.000079	108	70-130			
Zinc	0.33	0.40	mg/L	0.1000	0.23	107	70-130			
Matrix Spike (2108111-MS2)		**Source: 21G0726-03**		Prepared: 08/06/2021 Analyzed: 08/09/2021						
Aluminum	0.17	0.040	mg/L	0.1000	0.077	94	70-130			
Antimony	0.050	0.00050	mg/L	0.05000	0.00094	99	70-130			
Arsenic	0.056	0.00050	mg/L	0.05000	0.0075	97	70-130			
Barium	0.096	0.00050	mg/L	0.05000	0.052	88	70-130			
Beryllium	0.049	0.00025	mg/L	0.05000	ND	98	70-130			
Cadmium	0.046	0.00025	mg/L	0.05000	0.000065	92	70-130			
Chromium	0.046	0.00050	mg/L	0.05000	0.0011	90	70-130			
Cobalt	0.0443	0.000250	mg/L	0.05000	0.000427	88	70-130			
Copper	0.15	0.00050	mg/L	0.05000	0.13	55	70-130			M7
Lead	0.052	0.00050	mg/L	0.05000	0.0029	99	70-130			
Manganese	0.053	0.00025	mg/L	0.05000	0.0080	90	70-130			
Molybdenum	0.074	0.00025	mg/L	0.05000	0.026	95	70-130			
Nickel	0.045	0.00050	mg/L	0.05000	0.0025	84	70-130			
Selenium	0.054	0.0025	mg/L	0.05000	0.0036	101	70-130			
Silver	0.041	0.00050	mg/L	0.05000	0.000055	82	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	0.00026	100	70-130			
Uranium	0.061	0.00050	mg/L	0.05000	0.0063	109	70-130			
Zinc	0.10	0.040	mg/L	0.1000	0.011	93	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107341 - SM2540 C										
Duplicate (2107341-DUP1)		**Source: 21G0649-03**		Prepared: 07/29/2021 Analyzed: 08/03/2021						
Total Dissolved Solids (Residue, Filterable)	490	20	mg/L		500			2	5	
Duplicate (2107341-DUP2)		**Source: 21G0649-04**		Prepared: 07/29/2021 Analyzed: 08/03/2021						
Total Dissolved Solids (Residue, Filterable)	350	20	mg/L		350			0.9	5	
Duplicate (2107341-DUP3)		**Source: 21G0649-05**		Prepared: 07/29/2021 Analyzed: 08/03/2021						
Total Dissolved Solids (Residue, Filterable)	190	20	mg/L		190			2	5	
Batch 2107342 - SM2540 D										
Duplicate (2107342-DUP1)		**Source: 21G0553-01**		Prepared: 07/29/2021 Analyzed: 07/30/2021						
Total Suspended Solids	35	10	mg/L		36			3	5	
Duplicate (2107342-DUP2)		**Source: 21G0695-01**		Prepared: 07/29/2021 Analyzed: 07/30/2021						
Total Suspended Solids	170	10	mg/L		170			2	5	
Batch 2107354 - SM4500-SiO2 C										
Blank (2107354-BLK1)				Prepared & Analyzed: 07/29/2021						
Silica	ND	2.0	mg/L							
LCS (2107354-BS1)				Prepared & Analyzed: 07/29/2021						
Silica	7.7	2.0	mg/L	8.000		96	90-110			
LCS Dup (2107354-BSD1)				Prepared & Analyzed: 07/29/2021						
Silica	7.9	2.0	mg/L	8.000		98	90-110	2	20	
Matrix Spike (2107354-MS1)		**Source: 21G0635-08**		Prepared & Analyzed: 07/29/2021						
Silica	11	2.0	mg/L	8.000	2.6	102	85-115			
Matrix Spike Dup (2107354-MSD1)		**Source: 21G0635-08**		Prepared & Analyzed: 07/29/2021						
Silica	11	2.0	mg/L	8.000	2.6	103	85-115	0.2	20	
Batch 2107363 - SM2540 D										
Duplicate (2107363-DUP1)		**Source: 21G0552-01**		Prepared: 07/30/2021 Analyzed: 08/02/2021						
Total Suspended Solids	ND	10	mg/L		ND				5	Q9
Duplicate (2107363-DUP2)		**Source: 21G0713-01**		Prepared: 07/30/2021 Analyzed: 08/02/2021						
Total Suspended Solids	17	10	mg/L		16			6	5	Q9, R12
Batch 2108004 - SM2540 C										
Duplicate (2108004-DUP1)		**Source: 21G0681-13**		Prepared: 08/02/2021 Analyzed: 08/05/2021						
Total Dissolved Solids (Residue, Filterable)	390	20	mg/L		350			10	5	
Duplicate (2108004-DUP2)		**Source: 21G0685-01**		Prepared: 08/02/2021 Analyzed: 08/04/2021						
Total Dissolved Solids (Residue, Filterable)	300	20	mg/L		290			3	5	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108004 - SM2540 C										
Duplicate (2108004-DUP3)		**Source: 21G0686-01**		Prepared: 08/02/2021 Analyzed: 08/04/2021						
Total Dissolved Solids (Residue, Filterable)	570	20	mg/L		570			0	5	
Batch 2108014 - E150.1										
Duplicate (2108014-DUP1)		**Source: 21G0695-01**		Prepared & Analyzed: 07/30/2021						
pH (pH Units)	4.4		-		4.4			0.9	200	H5
Temperature (°C)	20		-		20			0.5	200	H5
Batch 2108015 - E150.1										
Duplicate (2108015-DUP1)		**Source: 21G0695-09**		Prepared & Analyzed: 08/02/2021						
pH (pH Units)	6.9		-		6.9			0.1	200	H5
Temperature (°C)	19		-		19			0.5	200	H5
Duplicate (2108015-DUP2)		**Source: 21G0719-04**		Prepared & Analyzed: 08/02/2021						
pH (pH Units)	7.5		-		7.5			0.5	200	H5
Temperature (°C)	22		-		22			0.5	200	H5
Batch 2108031 - E180.1										
Duplicate (2108031-DUP1)		**Source: 21G0695-10**		Prepared & Analyzed: 08/02/2021						
Turbidity	15	0.10	NTU		14			7	10	H1
Duplicate (2108031-DUP2)		**Source: 21G0719-08**		Prepared & Analyzed: 08/02/2021						
Turbidity	19	0.10	NTU		19			0	10	H1
Batch 2108038 - SM2510 B										
LCS (2108038-BS1)				Prepared & Analyzed: 08/03/2021						
Conductivity	140	0.10	µmhos/cm	141.2		101	0-200			
LCS Dup (2108038-BSD1)				Prepared & Analyzed: 08/03/2021						
Conductivity	150	0.10	µmhos/cm	141.2		106	0-200	4	200	
Duplicate (2108038-DUP1)		**Source: 21G0695-08**		Prepared & Analyzed: 08/03/2021						
Conductivity	280	0.10	µmhos/cm		270			1	10	
Duplicate (2108038-DUP2)		**Source: 21G0719-07**		Prepared & Analyzed: 08/03/2021						
Conductivity	100	0.10	µmhos/cm		100			0	10	
Batch 2108047 - SM2320B										
Blank (2108047-BLK1)				Prepared & Analyzed: 08/03/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2108047-BS1)				Prepared & Analyzed: 08/03/2021						
Alkalinity, Total (As CaCO3)	230	2.0	mg/L	250.0		94	90-110			

RCC-CW016986

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108047 - SM2320B										
LCS Dup (2108047-BSD1)				Prepared & Analyzed: 08/03/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		98	90-110	4	10	
Matrix Spike (2108047-MS1)		**Source: 21G0701-01**		Prepared & Analyzed: 08/03/2021						
Alkalinity, Total (As CaCO3)	380	2.0	mg/L	250.0	150	94	70-130			
Matrix Spike Dup (2108047-MSD1)		**Source: 21G0701-01**		Prepared & Analyzed: 08/03/2021						
Alkalinity, Total (As CaCO3)	370	2.0	mg/L	250.0	150	91	70-130	2	10	
Batch 2108071 - SM4500-NH3 B,C										
Blank (2108071-BLK1)				Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (2108071-BS1)				Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000		100	90-110			
LCS Dup (2108071-BSD1)				Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000		99	90-110	2	10	
Matrix Spike (2108071-MS1)		**Source: 21G0560-01**		Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.090	99	75-120			
Matrix Spike (2108071-MS2)		**Source: 21G0564-01**		Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.067	99	75-120			
Matrix Spike Dup (2108071-MSD1)		**Source: 21G0560-01**		Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.090	99	75-120	0.4	20	
Matrix Spike Dup (2108071-MSD2)		**Source: 21G0564-01**		Prepared & Analyzed: 08/04/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.067	99	75-120	0.5	20	
Batch 2108076 - SM2320B										
Blank (2108076-BLK1)				Prepared & Analyzed: 08/05/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2108076-BS1)				Prepared & Analyzed: 08/05/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110			
LCS Dup (2108076-BSD1)				Prepared & Analyzed: 08/05/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		96	90-110	2	10	
Matrix Spike (2108076-MS1)		**Source: 21G0656-01**		Prepared & Analyzed: 08/05/2021						
Alkalinity, Total (As CaCO3)	320	2.0	mg/L	250.0	90	92	70-130			
Matrix Spike Dup (2108076-MSD1)		**Source: 21G0656-01**		Prepared & Analyzed: 08/05/2021						
Alkalinity, Total (As CaCO3)	320	2.0	mg/L	250.0	90	94	70-130	1	10	
Batch 2108078 - SM2540 C										

RCC-CW016987

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2108078 - SM2540 C										
Duplicate (2108078-DUP1)		**Source: 21H0108-03**		Prepared: 08/06/2021 Analyzed: 08/11/2021						
Total Dissolved Solids (Residue, Filterable)	2100	20	mg/L		1800			12	5	
Duplicate (2108078-DUP2)		**Source: 21H0173-01**		Prepared: 08/06/2021 Analyzed: 08/11/2021						
Total Dissolved Solids (Residue, Filterable)	370	20	mg/L		820			75	5	
Batch 2108110 - SM2320B										
Blank (2108110-BLK1)				Prepared & Analyzed: 08/06/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2108110-BS1)				Prepared & Analyzed: 08/06/2021						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		96	90-110			
LCS Dup (2108110-BSD1)				Prepared & Analyzed: 08/06/2021						
Alkalinity, Total (As CaCO3)	230	2.0	mg/L	250.0		93	90-110	3	10	
Matrix Spike (2108110-MS1)		**Source: 21G0687-01**		Prepared & Analyzed: 08/06/2021						
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	100	92	70-130			
Matrix Spike Dup (2108110-MSD1)		**Source: 21G0687-01**		Prepared & Analyzed: 08/06/2021						
Alkalinity, Total (As CaCO3)	320	2.0	mg/L	250.0	100	90	70-130	2	10	
Batch 2108154 - SM4500-SiO2 C										
Blank (2108154-BLK1)				Prepared & Analyzed: 08/10/2021						
Silica	ND	2.0	mg/L							
LCS (2108154-BS1)				Prepared & Analyzed: 08/10/2021						
Silica	8.2	2.0	mg/L	8.000		103	90-110			
LCS Dup (2108154-BSD1)				Prepared & Analyzed: 08/10/2021						
Silica	8.3	2.0	mg/L	8.000		104	90-110	1	20	
Matrix Spike (2108154-MS1)		**Source: 21G0719-01**		Prepared & Analyzed: 08/10/2021						
Silica	54	10	mg/L	40.00	10	108	85-115			
Matrix Spike Dup (2108154-MSD1)		**Source: 21G0719-01**		Prepared & Analyzed: 08/10/2021						
Silica	54	10	mg/L	40.00	10	110	85-115	1	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107326 - E300.0 (2.1)										
Blank (2107326-BLK1)				Prepared & Analyzed: 07/27/2021						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (2107326-BS1)				Prepared & Analyzed: 07/27/2021						
Chloride	13	1.0	mg/L	12.50		100	90-110			
Fluoride	2.1	0.50	mg/L	2.000		106	90-110			
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000		102	90-110			
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500		103	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		105	90-110			
Sulfate	12	5.0	mg/L	12.50		98	90-110			
LCS Dup (2107326-BSD1)				Prepared & Analyzed: 07/27/2021						
Chloride	13	1.0	mg/L	12.50		102	90-110	1	10	
Fluoride	2.0	0.50	mg/L	2.000		100	90-110	5	10	
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000		102	90-110	0.3	10	
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500		107	90-110	4	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		107	90-110	2	10	
Sulfate	12	5.0	mg/L	12.50		97	90-110	0.9	10	
Matrix Spike (2107326-MS1)	**Source: 21G0695-03**			Prepared: 07/27/2021 Analyzed: 08/04/2021						
Chloride	13	1.0	mg/L	12.50	0.88	94	80-120			
Fluoride	1.9	0.50	mg/L	2.000	ND	95	80-120			
Nitrogen, Nitrate (As N)	5.5	0.50	mg/L	5.000	0.59	99	80-120			
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.095	108	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.9	0.50	mg/L	2.500	ND	115	80-120			
Sulfate	14	5.0	mg/L	12.50	2.5	91	80-120			
Matrix Spike (2107326-MS2)	**Source: 21G0695-05**			Prepared: 07/27/2021 Analyzed: 08/05/2021						
Chloride	13	1.0	mg/L	12.50	0.86	97	80-120			
Fluoride	1.9	0.50	mg/L	2.000	ND	93	80-120			
Nitrogen, Nitrate (As N)	5.5	0.50	mg/L	5.000	0.46	100	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	98	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	3.0	0.50	mg/L	2.500	ND	120	80-120			M1
Sulfate	20	5.0	mg/L	12.50	7.7	95	80-120			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21G0695
Date Received: 07/27/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2107326 - E300.0 (2.1)										
Matrix Spike Dup (2107326-MSD1)	**Source: 21G0695-03**			Prepared: 07/27/2021 Analyzed: 08/04/2021						
Chloride	13	1.0	mg/L	12.50	0.88	96	80-120	2	10	
Fluoride	1.9	0.50	mg/L	2.000	ND	97	80-120	1	10	
Nitrogen, Nitrate (As N)	5.6	0.50	mg/L	5.000	0.59	100	80-120	1	10	
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.095	110	80-120	1	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.9	0.50	mg/L	2.500	ND	115	80-120	0.1	10	
Sulfate	14	5.0	mg/L	12.50	2.5	92	80-120	1	10	
Matrix Spike Dup (2107326-MSD2)	**Source: 21G0695-05**			Prepared: 07/27/2021 Analyzed: 08/05/2021						
Chloride	13	1.0	mg/L	12.50	0.86	98	80-120	0.3	10	
Fluoride	1.9	0.50	mg/L	2.000	ND	94	80-120	1	10	
Nitrogen, Nitrate (As N)	5.5	0.50	mg/L	5.000	0.46	101	80-120	0.2	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	ND	99	80-120	1	10	
Phosphorus, Dissolved Orthophosphate (As P)	3.1	0.50	mg/L	2.500	ND	123	80-120	2	10	M1
Sulfate	20	5.0	mg/L	12.50	7.7	96	80-120	0.6	10	

RCC-CW016991

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
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www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 2160695 DATE 7/27/21 PAGE 1 OF 02

PROJECT NAME Stormwater # _____

CONTACT NAME : David Krizek

COMPANY NAME : Hudbay Minerals/ Rosemont Copper Company

ADDRESS : 5255 E Williams Circle, Suite 1065

CITY Tucson STATE AZ ZIP CODE 85711

PHONE 520-495-3527 FAX

SAMPLER'S SIGNATURE _____

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX: SEE Attached sheet
TTB2-072321	7/23/21	23:15		SW	4	/
TTB2-072221	7/22/21	23:44		SW	3	/
D4B-1B	7/22/21	23:44		SW	4	/
D4B-1A	7/22/21	23:44		SW	4	/
TTA-2	7/23/21	23:15		SW	4	/
TTA-3	7/23/21	23:15		SW	4	/
D4A-1	7/23/21	23:15		SW	4	/
D3A-1	7/22/21	23:44		SW	4	/
D5A-1	7/23/21	23:15		SW	4	/
BC2-072721	7/27/21	9:49		SW	4	/
BCD-072721	7/27/21	9:50		SW	4	/

1. RELINQUISHED BY:
Signature: Andy Warnick
Printed Name: Andy Warnick
Firm: Rosemont
Date/Time: 7/27/21 14:51

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature: Leonard Mata
Printed Name: Leonard Mata
Firm: TURNER LABORATORIES, INC.
Date/Time: 7/27/21 1451

TURNAROUND REQUIREMENTS:
Standard (approx.10 days)*
Next day 2 Day 5 Day*
Email Preliminary Results To:
* Working Days

REPORT REQUIREMENTS:
I. Routine Report
II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account Y N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 47
Temperature 2.6
Wet Ice Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:		Yes	No	Custody Seals		Preservation Confirmation	✓
ADEQ Forms:		Yes	No	Container Intact	✓	Appropriate Head Space	✓
Mail ADEQ Forms:		Yes	No	COC/Labels Agree	✓	Received Within Hold Time	✓

RCC-CW016992

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
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(520) 882-5880
Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 2160695 DATE 7/27/21 PAGE 1 2 OF 1 2

PROJECT NAME Stormwater # _____

CONTACT NAME : David Krizek

COMPANY NAME : Hudbay Minerals/ Rosemont Copper Company

ADDRESS : 5255 E Williams Circle, Suite 1065

CITY Tucson STATE AZ ZIP CODE 85711

PHONE 520-495-3527 FAX

SAMPLER'S SIGNATURE _____

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	See attached sheet
DC3-072721	7/22/21	22:41		SW	4	X

1. RELINQUISHED BY:
Signature
Andy Warnick
Printed Name
Rosemont
Firm
7/27/21 1451
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
_____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____ Email Preliminary Results To:
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 47
Temperature 2.6
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Leonard Melody
Printed Name
TURNER LABORATORIES, INC.
Firm
7/27/21 1451
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes ☐ No	Custody Seals	☐	Preservation Confirmation	☑
ADEQ Forms:	☐ Yes ☐ No	Container Intact	☑	Appropriate Head Space	☑
Mail ADEQ Forms:	☐ Yes ☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

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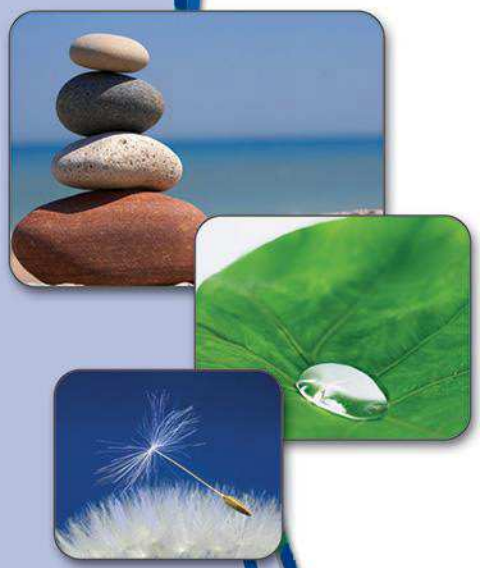

ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix
4625 East Cotton Ctr Blvd
Suite 189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-168253-1
Laboratory Sample Delivery Group: TKN
Client Project/Site: 21G0695

For:
Turner Laboratories, Inc.
2445 North Coyote Drive
Suite 104
Tucson, Arizona 85745

Attn: Elizabeth Kasik

Authorized for release by:
8/13/2021 7:53:47 AM

Ken Baker, Project Manager II
(602)659-7624
Ken.Baker@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

General Chemistry

Qualifier	Qualifier Description
D1	Sample required dilution due to matrix.
D5	Minimum Reporting Limit (MRL) adjusted due to sample dilution; analyte was non-detect in the sample.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Job ID: 550-168253-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

Job Narrative
550-168253-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6º C.

General Chemistry
Method 351.2: The following sample was diluted for Total Kjedahl Nitrogen (TKN) due to the nature of the sample matrix: 21G0695-08 (550-168253-8). An elevated reporting limit (RL) has been provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
STG:5 KN

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-168253-1	21G0695-01	Water	07/23/21 23:15	08/03/21 09:30
550-168253-2	21G0695-02	Water	07/22/21 23:44	08/03/21 09:30
550-168253-3	21G0695-03	Water	07/22/21 23:44	08/03/21 09:30
550-168253-4	21G0695-04	Water	07/22/21 23:44	08/03/21 09:30
550-168253-5	21G0695-05	Water	07/23/21 23:15	08/03/21 09:30
550-168253-6	21G0695-06	Water	07/23/21 23:15	08/03/21 09:30
550-168253-7	21G0695-07	Water	07/23/21 23:15	08/03/21 09:30
550-168253-8	21G0695-08	Water	07/22/21 23:44	08/03/21 09:30
550-168253-9	21G0695-09	Water	07/23/21 23:15	08/03/21 09:30
550-168253-10	21G0695-10	Water	07/27/21 09:49	08/03/21 09:30
550-168253-11	21G0695-11	Water	07/27/21 09:50	08/03/21 09:30
550-168253-12	21G0695-12	Water	07/22/21 22:41	08/03/21 09:30

Detection Summary

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Client Sample ID: 21G0695-01 — Lab Sample ID: 550-168253-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	0.58		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-02 — Lab Sample ID: 550-168253-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	0.74		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-03 — Lab Sample ID: 550-168253-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	2.5		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-04 — Lab Sample ID: 550-168253-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	2.3	D1	2.0	1.5	mg/L	10		351.2	Total/NA

Client Sample ID: 21G0695-05 — Lab Sample ID: 550-168253-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	0.58		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-06 — Lab Sample ID: 550-168253-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	4.4		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-07 — Lab Sample ID: 550-168253-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	7.7	D1	2.0	1.5	mg/L	10		351.2	Total/NA

Client Sample ID: 21G0695-08 — Lab Sample ID: 550-168253-8

No Detections.

Client Sample ID: 21G0695-09 — Lab Sample ID: 550-168253-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	2.1	D1	2.0	1.5	mg/L	10		351.2	Total/NA

Client Sample ID: 21G0695-10 — Lab Sample ID: 550-168253-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	1.6		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-11 — Lab Sample ID: 550-168253-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	2.0		0.20	0.15	mg/L	1		351.2	Total/NA

Client Sample ID: 21G0695-12 — Lab Sample ID: 550-168253-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	12	D1	2.0	1.5	mg/L	10		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 21G0695-01
Lab Sample ID: 550-168253-1
Date Collected: 07/23/21 23:15
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.58		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 14:26	1

Client Sample ID: 21G0695-02
Lab Sample ID: 550-168253-2
Date Collected: 07/22/21 23:44
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.74		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 14:28	1

Client Sample ID: 21G0695-03
Lab Sample ID: 550-168253-3
Date Collected: 07/22/21 23:44
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.5		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 16:42	1

Client Sample ID: 21G0695-04
Lab Sample ID: 550-168253-4
Date Collected: 07/22/21 23:44
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.3	D1	2.0	1.5	mg/L		08/10/21 07:15	08/12/21 14:32	10

Client Sample ID: 21G0695-05
Lab Sample ID: 550-168253-5
Date Collected: 07/23/21 23:15
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.58		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 14:34	1

Client Sample ID: 21G0695-06
Lab Sample ID: 550-168253-6
Date Collected: 07/23/21 23:15
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	4.4		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 16:44	1

Client Sample ID: 21G0695-07
Lab Sample ID: 550-168253-7
Date Collected: 07/23/21 23:15
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	7.7	D1	2.0	1.5	mg/L		08/10/21 07:15	08/12/21 14:56	10

Client Sample ID: 21G0695-08

Lab Sample ID: 550-168253-8
Date Collected: 07/22/21 23:44
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND	D1 D5 E8	2.0	1.5	mg/L		08/10/21 07:15	08/12/21 14:58	10

Client Sample ID: 21G0695-09

Lab Sample ID: 550-168253-9
Date Collected: 07/23/21 23:15
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.1	D1	2.0	1.5	mg/L		08/10/21 07:15	08/12/21 15:00	10

Client Sample ID: 21G0695-10

Lab Sample ID: 550-168253-10
Date Collected: 07/27/21 09:49
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.6		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 15:02	1

Client Sample ID: 21G0695-11

Lab Sample ID: 550-168253-11
Date Collected: 07/27/21 09:50
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.0		0.20	0.15	mg/L		08/10/21 07:15	08/12/21 15:04	1

Client Sample ID: 21G0695-12

Lab Sample ID: 550-168253-12
Date Collected: 07/22/21 22:41
Matrix: Water
Date Received: 08/03/21 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	12	D1	2.0	1.5	mg/L		08/10/21 07:15	08/12/21 15:06	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 550-250106/4-A
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND	Ea	0.20	0.15	mg/L		08/10/21 07:15	08/12/21 14:08	1

Lab Sample ID: LCS 550-250106/5-A
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250106

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Kjeldahl			10.0	10.8		mg/L		108	90 - 110		

Lab Sample ID: LCSD 550-250106/6-A
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 250106

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl			10.0	10.9		mg/L		109	90 - 110	1	20

Lab Sample ID: 550-167106-B-1-B MS
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 250106

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Kjeldahl	1.3		10.0	12.2		mg/L		109	90 - 110		

Lab Sample ID: 550-167106-B-1-C MSD
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 250106

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.3		10.0	11.6		mg/L		103	90 - 110	5	20

Lab Sample ID: 550-168327-B-1-C MS
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 250106

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Kjeldahl	ND	E8	10.0	11.0		mg/L		110	90 - 110		

Lab Sample ID: 550-168327-B-1-D MSD
Matrix: Water
Analysis Batch: 250401

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 250106

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	ND	E8	10.0	10.8		mg/L		108	90 - 110	2	20

General Chemistry

Prep Batch: 250106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-168253-1	21G0695-01	Total/NA	Water	351.2	
550-168253-2	21G0695-02	Total/NA	Water	351.2	
550-168253-3	21G0695-03	Total/NA	Water	351.2	
550-168253-4	21G0695-04	Total/NA	Water	351.2	
550-168253-5	21G0695-05	Total/NA	Water	351.2	
550-168253-6	21G0695-06	Total/NA	Water	351.2	
550-168253-7	21G0695-07	Total/NA	Water	351.2	
550-168253-8	21G0695-08	Total/NA	Water	351.2	
550-168253-9	21G0695-09	Total/NA	Water	351.2	
550-168253-10	21G0695-10	Total/NA	Water	351.2	
550-168253-11	21G0695-11	Total/NA	Water	351.2	
550-168253-12	21G0695-12	Total/NA	Water	351.2	
MB 550-250106/4-A	Method Blank	Total/NA	Water	351.2	
LCS 550-250106/5-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 550-250106/6-A	Lab Control Sample Dup	Total/NA	Water	351.2	
550-167106-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	
550-167106-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
550-168327-B-1-C MS	Matrix Spike	Total/NA	Water	351.2	
550-168327-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

Analysis Batch: 250401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-168253-1	21G0695-01	Total/NA	Water	351.2	250106
550-168253-2	21G0695-02	Total/NA	Water	351.2	250106
550-168253-3	21G0695-03	Total/NA	Water	351.2	250106
550-168253-4	21G0695-04	Total/NA	Water	351.2	250106
550-168253-5	21G0695-05	Total/NA	Water	351.2	250106
550-168253-6	21G0695-06	Total/NA	Water	351.2	250106
550-168253-7	21G0695-07	Total/NA	Water	351.2	250106
550-168253-8	21G0695-08	Total/NA	Water	351.2	250106
550-168253-9	21G0695-09	Total/NA	Water	351.2	250106
550-168253-10	21G0695-10	Total/NA	Water	351.2	250106
550-168253-11	21G0695-11	Total/NA	Water	351.2	250106
550-168253-12	21G0695-12	Total/NA	Water	351.2	250106
MB 550-250106/4-A	Method Blank	Total/NA	Water	351.2	250106
LCS 550-250106/5-A	Lab Control Sample	Total/NA	Water	351.2	250106
LCSD 550-250106/6-A	Lab Control Sample Dup	Total/NA	Water	351.2	250106
550-167106-B-1-B MS	Matrix Spike	Total/NA	Water	351.2	250106
550-167106-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	250106
550-168327-B-1-C MS	Matrix Spike	Total/NA	Water	351.2	250106
550-168327-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	250106

Lab Chronicle

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Client Sample ID: 21G0695-01
Date Collected: 07/23/21 23:15
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 14:26	RLS	TAL PHX

Client Sample ID: 21G0695-02
Date Collected: 07/22/21 23:44
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 14:28	RLS	TAL PHX

Client Sample ID: 21G0695-03
Date Collected: 07/22/21 23:44
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 16:42	RLS	TAL PHX

Client Sample ID: 21G0695-04
Date Collected: 07/22/21 23:44
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		10	250401	08/12/21 14:32	RLS	TAL PHX

Client Sample ID: 21G0695-05
Date Collected: 07/23/21 23:15
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 14:34	RLS	TAL PHX

Client Sample ID: 21G0695-06
Date Collected: 07/23/21 23:15
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 16:44	RLS	TAL PHX

Lab Chronicle

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Client Sample ID: 21G0695-07
Date Collected: 07/23/21 23:15
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		10	250401	08/12/21 14:56	RLS	TAL PHX

Client Sample ID: 21G0695-08
Date Collected: 07/22/21 23:44
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		10	250401	08/12/21 14:58	RLS	TAL PHX

Client Sample ID: 21G0695-09
Date Collected: 07/23/21 23:15
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		10	250401	08/12/21 15:00	RLS	TAL PHX

Client Sample ID: 21G0695-10
Date Collected: 07/27/21 09:49
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 15:02	RLS	TAL PHX

Client Sample ID: 21G0695-11
Date Collected: 07/27/21 09:50
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		1	250401	08/12/21 15:04	RLS	TAL PHX

Client Sample ID: 21G0695-12
Date Collected: 07/22/21 22:41
Date Received: 08/03/21 09:30

Lab Sample ID: 550-168253-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			250106	08/10/21 07:15	DGS	TAL PHX
Total/NA	Analysis	351.2		10	250401	08/12/21 15:06	RLS	TAL PHX

Laboratory References:
TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Laboratory: Eurofins TestAmerica, Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-22

Method Summary

Client: Turner Laboratories, Inc.
Project/Site: 21G0695

Job ID: 550-168253-1
SDG: TKN

Method	Method Description	Protocol	Laboratory
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL PHX
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL PHX

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

168253

SUBCONTRACT ORDER

Turner Laboratories, Inc.

21G0695

SENDING LABORATORY:

Turner Laboratories, Inc.
2445 N. Coyote Drive, Ste #104
Tucson, AZ 85745
Phone: 520.882.5880
Fax: 520.882.9788
Project Manager: Max DiSante

RECEIVING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Boulevard Suite 189
Phoenix, AZ 85540
Phone :(602) 437-3340
Fax:
Please CC Kevin Brim Kbrim@turnerlabs.com

Analysis	Expires	Laboratory ID	Comments
-1 **Sample ID: 21G0695-01 Non-Potable Wat Sampled:07/23/2021 23:15**			
Nitrogen, Total Kjeldahl	08/20/2021 23:15		
Containers Supplied:			
-2 **Sample ID: 21G0695-02 Non-Potable Wat Sampled:07/22/2021 23:44**			
Nitrogen, Total Kjeldahl	08/19/2021 23:44		
Containers Supplied:			
-3 **Sample ID: 21G0695-03 Non-Potable Wat Sampled:07/22/2021 23:44**			
Nitrogen, Total Kjeldahl	08/19/2021 23:44		
Containers Supplied:			
-4 **Sample ID: 21G0695-04 Non-Potable Wat Sampled:07/22/2021 23:44**			
Nitrogen, Total Kjeldahl	08/19/2021 23:44		
Containers Supplied:			
-5 **Sample ID: 21G0695-05 Non-Potable Wat Sampled:07/23/2021 23:15**			
Nitrogen, Total Kjeldahl	08/20/2021 23:15		
Containers Supplied:			
-6 **Sample ID: 21G0695-06 Non-Potable Wat Sampled:07/23/2021 23:15**			
Nitrogen, Total Kjeldahl	08/20/2021 23:15		
Containers Supplied:			

550-168253 Chain of Custody

Released By	Date	Received By	Date
[signature]	8/2/21 1600	UPS	8/2/21 1600
~~Released By~~	Date	Received By	8-3-21 0930

RCC-CW017007

168253

SUBCONTRACT ORDER

Turner Laboratories, Inc.

21G0695

Analysis	Expires	Laboratory ID	Comments
-7 **Sample ID: 21G0695-07** Non-Potable Wat Sampled:07/23/2021 23:15			
Nitrogen, Total Kjeldahl	08/20/2021 23:15		
Containers Supplied:			
-8 **Sample ID: 21G0695-08** Non-Potable Wat Sampled:07/22/2021 23:44			
Nitrogen, Total Kjeldahl	08/19/2021 23:44		
Containers Supplied:			
-9 **Sample ID: 21G0695-09** Non-Potable Wat Sampled:07/23/2021 23:15			
Nitrogen, Total Kjeldahl	08/20/2021 23:15		
Containers Supplied:			
-10 **Sample ID: 21G0695-10** Non-Potable Wat Sampled:07/27/2021 09:49			
Nitrogen, Total Kjeldahl	08/24/2021 09:49		
Containers Supplied:			
-11 **Sample ID: 21G0695-11** Non-Potable Wat Sampled:07/27/2021 09:50			
Nitrogen, Total Kjeldahl	08/24/2021 09:50		
Containers Supplied:			
-12 **Sample ID: 21G0695-12** Non-Potable Wat Sampled:07/22/2021 22:41			
Nitrogen, Total Kjeldahl	08/19/2021 22:41		
Containers Supplied:			

0.6°C

UPS

NO A...

Released By	Date	Received By	Date
[signature]	8/2/21 1600	UPS	8/2/21 1600
[signature]		[signature]	8-3-21 0930

Login Sample Receipt Checklist

Client: Turner Laboratories, Inc.

Job Number: 550-168253-1
SDG Number: TKN

Login Number: 168253
List Number: 1
Creator: Maycock, Lisa

List Source: Eurofins TestAmerica, Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.